

Title (en)

Shaft seal apparatus

Title (de)

Wellendichtung

Title (fr)

Joint d'étanchéité pour passage d'arbre

Publication

EP 0947747 A3 20000906 (EN)

Application

EP 99302638 A 19990401

Priority

- JP 8904598 A 19980401
- JP 9210198 A 19980403

Abstract (en)

[origin: EP0947747A2] A shaft seal for sealing around a rotary shaft where said shaft extends through an aperture, said shaft seal comprising: a first rotatable sealing member having a first face, which first rotatable sealing member is adapted to be mounted on a rotary shaft for rotation therewith; a second non-rotatable sealing member having a second face, which second non-rotatable sealing member can be secured in or adjacent an aperture through which the shaft extends, such that said second non-rotatable sealing member encircles said shaft for closing said aperture and said second face opposes said first face, at least one of said first and second faces being movable into and out of contact with the other of said faces; biasing means active on said at least one of said first and second sealing members, for urging said at least one face into contact with the other of said faces for sealing the aperture; and fluid input means adapted to be connected to a pressurised supply of sealing and/or sterilization fluid, for inputting fluid between said first and second faces, for urging said first and second faces apart to provide a small clearance therebetween, which clearance is flushed by said fluid thereby preventing substantial egress of material through the seal. <IMAGE>

IPC 1-7

F16J 15/34

IPC 8 full level

F16J 15/34 (2006.01); **B01F 15/00** (2006.01)

CPC (source: EP US)

F16J 15/342 (2013.01 - EP US); **B01F 2035/351** (2022.01 - EP US)

Citation (search report)

- [XA] US 3572727 A 19710330 - GREINER HAROLD FREDRIC
- [XA] FR 1366961 A 19640717 - RATEAU SOC
- [XA] US 3917289 A 19751104 - IVANOV VIKTOR VASILIEVICH, et al
- [XA] US 5171023 A 19921215 - SCOTT ROBERT J [US], et al
- [XA] PATENT ABSTRACTS OF JAPAN vol. 014, no. 388 (M - 1014) 22 August 1990 (1990-08-22)

Cited by

CN105757252A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0947747 A2 19991006; EP 0947747 A3 20000906; EP 0947747 B1 20060524; DE 69931420 D1 20060629; DE 69931420 T2 20061228; US 2001052673 A1 200111220; US 6325378 B1 20011204

DOCDB simple family (application)

EP 99302638 A 19990401; DE 69931420 T 19990401; US 28128199 A 19990330